

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: AUGUST 23, 2016

TO: BOARD OF DIRECTORS
Lake Arrowhead Community Services District

FROM: 
MATT BROOKS, Operations Manager

SUBJECT: OPERATIONS MANAGER'S REPORT

A. RECOMMENDATION

This is an information item.

B. REASON FOR RECOMMENDATION

This is an information item.

C. BACKGROUND INFORMATION

This report is to give an update on water delivered in 2016.

D. FISCAL INFORMATION

This is an information item.

E. ATTACHMENTS

- 2016 Monthly Report
- 2015 Monthly Report
- July 2016 Water Delivered Annual Analysis
- Pictures from the Pilot Fire

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2016 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	CLAWA PURCHASE (a)	ROTW CLAWA PURCHASE (a)	BRENTWOOD CLAWA PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	UN-METERED WATER (d)
JANUARY	0.00	3.85	73.88	0.00	73.88	5.02	4.47	0.00	0.00	0.00	73.88	77.18	53.48	26.67	1.05	22.65
FEBRUARY	0.00	0.00	67.81	0.00	67.81	4.34	3.98	0.00	0.00	0.00	67.81	67.45	47.24	27.72	-0.17	20.38
MARCH	0.00	0.00	71.09	0.00	71.09	5.06	3.83	0.00	0.00	0.00	71.09	69.86	50.95	27.55	0.76	18.15
1ST QUARTER	0.00	3.85	212.78	0.00	212.78	14.42	12.28	0.00	0.00	0.00	212.78	214.49	151.67	81.94	1.64	61.18
APRIL	0.00	4.87	49.51	0.00	49.51	3.73	2.65	0.00	11.93	11.93	49.51	65.23	48.22	28.31	-0.19	17.20
MAY	0.00	12.08	91.35	0.00	91.35	5.69	5.20	0.00	12.33	12.33	91.35	115.27	86.00	28.12	-0.62	29.89
JUNE	0.00	15.84	138.66	11.58	150.24	11.00	5.95	0.00	10.44	10.44	150.24	171.47	140.31	27.50	-1.98	33.14
2ND QUARTER	0.00	32.79	279.52	11.58	291.10	20.42	13.80	0.00	34.70	34.70	291.10	351.97	274.53	83.93	-2.79	80.23
SEMI-ANNUAL	0.00	36.64	492.30	11.58	503.88	34.84	26.08	0.00	34.70	34.70	503.88	566.46	426.20	165.87	-1.15	141.41
JULY	0.00	15.23	178.66	17.29	195.95	12.79	7.71	0.00	0.00	0.00	195.95	206.10	160.96	25.52	-0.41	45.55
AUGUST	0.00				0.00					0.00	0.00	0.00		25.11	-25.11	25.11
SEPTEMBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
3RD QUARTER	0.00	15.23	178.66	17.29	195.95	12.79	7.71	0.00	0.00	0.00	195.95	206.10	160.96	50.63	-25.52	70.66
OCTOBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
NOVEMBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
DECEMBER	0.00				0.00					0.00	0.00	0.00				0.00
4TH QUARTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANNUAL TOTAL	0.00	51.87	670.96	28.87	699.83	47.63	33.79	0.00	34.70	34.70	699.83	772.56	587.16	216.50	-26.67	212.07

(a) CLAWA consumption numbers are based upon monthly billing statements provided by CLAWA. CLAWA reads these meters on or near the 24th of each month, so the numbers may not be an actual representation of water consumed for said calendar month.

(b) Lake Draw = (1) + (5)

(c) Delivered to Distribution = (2) + (5) - (6) + (7) + (10)

(d) Un-Metered Water = ((12) - (13)) - (15)

(e) Storage Volume calculated 8:00 am the 1st of every month.

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
2015 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	CLAWA PURCHASE (a)	ROTW CLAWA PURCHASE (a)	BRENTWOOD CLAWA PURCHASE (a)	COMBINED PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	UN-METERED WATER (d)
JANUARY	0.00	3.01	82.26	0.00	82.26	6.99	2.56	0.00	0.00	0.00	82.26	80.84	57.79	26.73	0.69	22.36	
FEBRUARY	0.00	16.57	51.62	0.00	51.62	4.47	1.47	0.00	0.00	0.00	51.62	65.19	46.38	27.42	0.54	18.27	
MARCH	0.00	16.21	57.62	0.00	57.62	4.89	1.73	0.00	0.00	0.00	57.62	70.67	52.49	27.96	-0.85	19.03	
1ST QUARTER	0.00	35.79	191.50	0.00	191.50	16.35	5.76	0.00	0.00	0.00	191.50	216.70	156.66	82.11	0.38	59.66	
APRIL	0.00	15.04	52.46	2.76	55.22	4.97	2.81	0.00	5.05	5.05	55.22	73.15	57.08	27.11	-0.83	16.90	
MAY	0.00	14.76	48.88	6.03	54.91	5.46	2.64	0.00	32.24	32.24	54.91	99.09	76.41	26.28	-0.70	23.38	
JUNE	0.00	12.87	129.58	0.17	129.75	9.94	5.77	0.00	0.00	0.00	129.75	138.45	113.87	25.58	1.56	23.02	
2ND QUARTER	0.00	42.67	230.92	8.96	239.88	20.37	11.22	0.00	37.29	37.29	239.88	310.69	247.36	78.97	0.03	63.30	
SEMI-ANNUAL	0.00	78.46	422.42	8.96	431.38	36.72	16.98	0.00	37.29	37.29	431.38	527.39	404.02	161.08	0.41	122.96	
JULY	0.00	13.48	150.29	0.00	150.29	10.44	6.55	0.00	0.00	0.00	150.29	159.88	137.12	27.14	0.16	22.60	
AUGUST	0.00	15.53	151.73	0.00	151.73	9.91	6.24	0.00	0.00	0.00	151.73	163.59	130.14	27.30	0.46	32.99	
SEPTEMBER	0.00	14.53	124.95	0.00	124.95	8.24	5.70	0.00	0.00	0.00	124.95	136.94	113.67	27.76	0.55	22.72	
3RD QUARTER	0.00	43.54	426.97	0.00	426.97	28.59	18.49	0.00	0.00	0.00	426.97	460.41	380.93	82.20	1.17	78.31	
OCTOBER	0.00	14.64	87.28	0.00	87.28	6.48	5.39	0.00	0.00	0.00	87.28	100.83	84.17	28.31	-0.96	17.62	
NOVEMBER	0.00	10.77	63.37	0.00	63.37	4.51	2.78	0.00	0.00	0.00	63.37	72.41	55.20	27.35	-0.68	17.89	
DECEMBER	0.00	8.16	69.21	0.00	69.21	4.72	3.94	0.00	0.00	0.00	69.21	76.59	60.87	26.67	0.05	15.67	
4TH QUARTER	0.00	33.57	219.86	0.00	219.86	15.71	12.11	0.00	0.00	0.00	219.86	249.83	200.24	82.33	-1.59	51.18	
ANNUAL TOTAL	0.00	155.57	1069.25	8.96	1078.21	81.02	47.58	0.00	37.29	37.29	1078.21	1237.63	985.19	325.61	-0.01	252.45	

(a) CLAWA consumption numbers are based upon monthly billing statements provided by CLAWA. CLAWA reads these meters on or near the 24th of each month, so the numbers may not be an actual representation of water consumed for said calendar month.

(b) Lake Draw = (1) + (5)

(c) Delivered to Distribution = (2) + (5) - (6) + (7) + (10)

(d) Un-Metered Water = ((12) - (13)) - (15)

(e) Storage Volume calculated 8:00 am the 1st of every month.

August 23, 2016

July 2016 Water Delivered Annual Analysis

- In July 2016 (206.10 AF), consumption was up 28.9% compared to July 2015 (159.88 AF). Through the 1st 7 months of 2016 (772.56 AF), consumption was up 12.4% compared to the 1st 7 months of 2015 (687.27 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- July 2016 Lake Draw = 195.95 vs July 2015 = 150.29 AF. Lake Draw 1st 7 months of 2016 = 699.83 vs 1st 7 months of 2015 = 581.67.
- July 2016 Wells to System = 15.23 AF vs July 2015 = 13.48 AF. Wells to System 1st 7 months of 2016 = 51.87 AF vs 1st 7 months of 2015 = 91.94 AF.
- July 2016 total CLAWA purchase = 0 AF. CLAWA purchase 1st 7 months of 2016 = 34.70 AF vs 1st 7 months of 2015 = 37.29 AF. On June 27th CLAWA I was turned off as we had received our allotted Overlap water.
- July 2016 Recycled water delivered = 52.46 AF vs July 2015 = 33.60 AF. Recycled water delivered 1st 7 months of 2016 = 131.16 AF vs 1st 7 months of 2015 = 143.36 AF.





